ENVIRONMENTAL CHECKLIST

A. BACKGROUND

1. ***Name of proposed project, if applicable:***

   AOC-001/002 Interim Action (Soil Removal)
   Boeing Renton Corrective Action Agreed Order

2. ***Name of applicant:***

   The Boeing Company
   P.O. Box 3707, M/S 63-41
   Seattle, WA 98124-2207

3. ***Address and phone number of applicant and contact person:***

   Raymond Power (425) 234-7744
   Airplane Programs Environmental Affairs
   The Boeing Company
   P.O. Box 3707, M/S 63-1
   Seattle, WA 98124-2207

4. ***Date checklist prepared:***

   August 17, 2005

5. ***Agency requesting checklist:***

   Washington Department of Ecology
   Northwest Regional Office – Hazardous Waste and Toxics Reduction Program

6. ***Proposed timing or schedule (including phasing, if applicable):***

   Tentative start date is September 30, 2005 and work is anticipated to require five working days. Due to wet winter weather, this interim action should be completed before November 1, 2005.

7. ***Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.***

   Yes. Final cleanup of soil and groundwater will be necessary.

8. ***List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.***

   Remedial Investigation Report, AOC-001/002 Interim Action Work Plan submitted to Ecology on August 2, 2005.

Final Feasibility Study Work Plan, Boeing Renton Plant, submitted to Ecology on April 26, 2004.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

No.

10. List any government approvals or permits that will be needed for your proposal, if known.

Federal:
None known at this time

State of Washington:
SEPA DNS from WDOE

King County:
None

City of Renton/Local:
Grade and fill permit

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

Removal of contaminated soil to be conducted under WDOE supervision, approval and in accordance with the Boeing Renton Corrective Action Agreed Order. A work plan has been submitted to WDOE for review and approval. The excavation is anticipated to measure 40-feet wide by 40-feet long and 3- to 4-feet deep (to the water table). Depending on soil conditions encountered the excavation may be slightly larger or deeper. The removed soil will be characterized and disposed according to applicable regulations.

After contaminated soils are excavated and prior to backfilling the area, a non-hazardous substrate may be added to the excavated area to promote biodegradation of remaining volatile organic compounds in groundwater. Substrates that will be considered include carbohydrates such as sodium lactate or molasses, and emulsified oils such as soybean or vegetable oil. These compounds provide the nutrients and hydrogen necessary for the reductive dechlorination of chlorinated volatile organic compounds. Up to 1,000 gallons of substrate could be added, depending on the type of substrate used and size of excavation. The substrate may be mixed with additional quantities of water for better distribution. Or, this substrate may be direct injected by geoprobe or injection wells following excavation backfilling.

The backfill will consist of clean fill compacted as required for aircraft towing operations.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

This area is located at the north end of the Boeing Renton facility northeast of Building 4-20. Figures attached.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (circle one): Flat, rolling, hilly steep slopes, mountainous, other

Flat

b. What is the steepest slope on the site (approximate percent slope)?

2%

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

Sandy silt loam

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

Approximately two hundred cubic yards of soil will be removed and replaced with clean structural fill from a commercial source. Once the area is backfilled it will be paved with structural concrete.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

No.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

The existing surface is impervious and will be replaced with a similar surface.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

BMPs will be implemented per the site Stormwater Pollution Prevention Plan.

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

None anticipated. Odors were not detected during previous excavations of similar concentrations of these types of constituents at this facility. Specifically, based on our previous experience with the AOC-090 Interim Action excavation. There are also air monitoring provisions in the Health and Safety Plan. As with all excavation projects, appropriate dust control measures will be used.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Mitigation measures will be implemented as required to meet or exceed all applicable standards as required by the Puget Sound Clean Air Agency and the Department of Ecology. Additional potential mitigation measures to reduce emissions include ensuring that machines and equipment used during excavation are well maintained.

3. Water

a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Lake Washington and the Cedar River Waterway

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Lake Washington and the Cedar River Waterway are located more than 200 feet away from the excavation location.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No.

b. Ground:

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.

No. An undetermined amount of water may be used to distribute the non-hazardous substrate in the excavated area to promote biodegradation of any remaining volatile organic compounds in groundwater.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ;agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

None

c. Water runoff (including storm-water):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Runoff is not anticipated from project area which has contacted excavated material. Examples of BMPs, preventative measures, and project controls to be implemented include: filter fabric placed in stormwater catch basins in the area, activities not conducted if raining, no excavated material allowed outside

of excavation unless properly contained in shipping container or placed on plastic sheeting and covered with plastic sheeting to prevent contact with rainwater.

2) Could waste materials enter ground or surface waters? If so, generally describe.

No. See response to c. 1) above.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

See response to c. 1) above. BMPs contained in the site SWPPP.

4. Plants

a. Check or circle types of vegetation found on the site:
deciduous tree: alder, maple, aspen, other
evergreen tree: fir, cedar, pine, other
shrubs, grass, pasture, crop or grain,
wet soil plants: cattail, buttercup, bullrush, skunk
cabbage, other water plants: water lily, eelgrass, milfoil
other types of vegetation

None

b. What kind and amount of vegetation will be removed or altered?

None.

c. List threatened or endangered species known to be on or near the site.

None

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

None.

5. Animals

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

Birds and animals that have been observed on or near the site are listed below:

birds:	seagulls, crows
mammals:	none observed
fish:	coho salmon, chinook salmon sockeye salmon steelhead and cutthroat trout, native char (bull trout) and long fin smelt

b. List any threatened or endangered species known to be on or near the site.

None.

c. Is the site part of a migration route? If so, explain.

Pacific Flyway

d. Proposed measures to preserve or enhance wildlife, if any:

Utilize temporary stormwater and erosion control measures as well as long-term stormwater and hazardous materials control systems and best management practices to prevent contaminated discharges.

6. Energy and natural resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

None

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

None

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

None

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe.

TPH and solvents are present in the soil to be removed. A Health and Safety Plan will be developed and followed during the project to mitigate these potential hazards. The excavated material will be characterized and disposed per applicable regulations.

1) Describe special emergency services that might be required.

No special emergency services are anticipated. The hazardous materials involved have been identified, commonly managed and are reasonably expected to be within the capability of existing emergency service operations.

2) Proposed measures to reduce or control environmental health hazards, if any:

A Health and Safety Plan will be developed followed during the project to mitigate these hazards.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

None

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Temporary noise impacts during construction are anticipated. Construction projects of this type typically produce noise levels that range from 68 to 98 dba at 50 feet from the specific equipment. Construction will take place, typically, from dawn to dusk for about five working days.

3) Proposed measures to reduce or control noise impacts, if any:

None

8. Land and shoreline use

a. What is the current use of the site and adjacent properties?

The site is fully developed as an aircraft manufacturing and final assembly facility. Adjacent to the west of the project site is the Cedar River Trail and Park.

b. Has the site been used for agriculture? If so, describe.

No

c. Describe any structures on the site.

The Renton Plant is a large airplane manufacturing and final assembly facility, consisting of many buildings and ancillary uses. The project site is located within the Renton Plant.

d. Will any structures be demolished? If so, what?

No.

e. What is the current zoning classification of the site?

The site is designated Urban Center North 2 (UCN-2) on the City's Zoning.

f. What is the current comprehensive plan designation of the site?

Urban Center North (UCN).

g. If applicable, what is the current shoreline master program designation of the site?

N/A

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

No.

i. Approximately how many people would reside or work in the completed project?

None.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

Not Applicable.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

Compliance with city code.

9. **Housing**

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any:

None.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

N/A

b. What views in the immediate vicinity would be altered or obstructed?

None.

c. Proposed measures to reduce or control aesthetic impacts, if any:

None.

11. Light and glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

N/A

b. Could light or glare from the finished project be a safety hazard or interfere with views?

N/A

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any:

None.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

The Cedar River Trail Park, which includes the Cedar River shoreline and Lake Washington, are nearby. Recreational activities in the immediate vicinity of the project area are primarily boating and to a lesser extent, fishing. Swimmers have not been observed in the immediate project vicinity. Swimming activities primarily occur at Gene Coulon Park, located approximately 1/3 mile northeast of the project location.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

None.

13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

No.

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

None have been identified on the project site.

c. Proposed measures to reduce or control impacts, if any:

Although previous excavation has disclosed no indications of archaeological significance, if artifacts are uncovered, work in that area will be halted pending notification and response from appropriate agencies.

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

The Boeing facility is served by Park Avenue North. Figure attached.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

Yes.

c. How many parking spaces would the completed project have? How many would the project eliminate?

N/A

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

N/A

g. Proposed measures to reduce or control transportation impacts, if any:

None.

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

None anticipated.

b. Proposed measures to reduce or control direct impacts on public services, if any.

None

16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.

Electricity, natural gas, domestic water, refuse service, telephone, sanitary sewer and storm sewerage are currently available.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

None

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: _____

Raymond T. Power

Date Submitted: 9/01/05

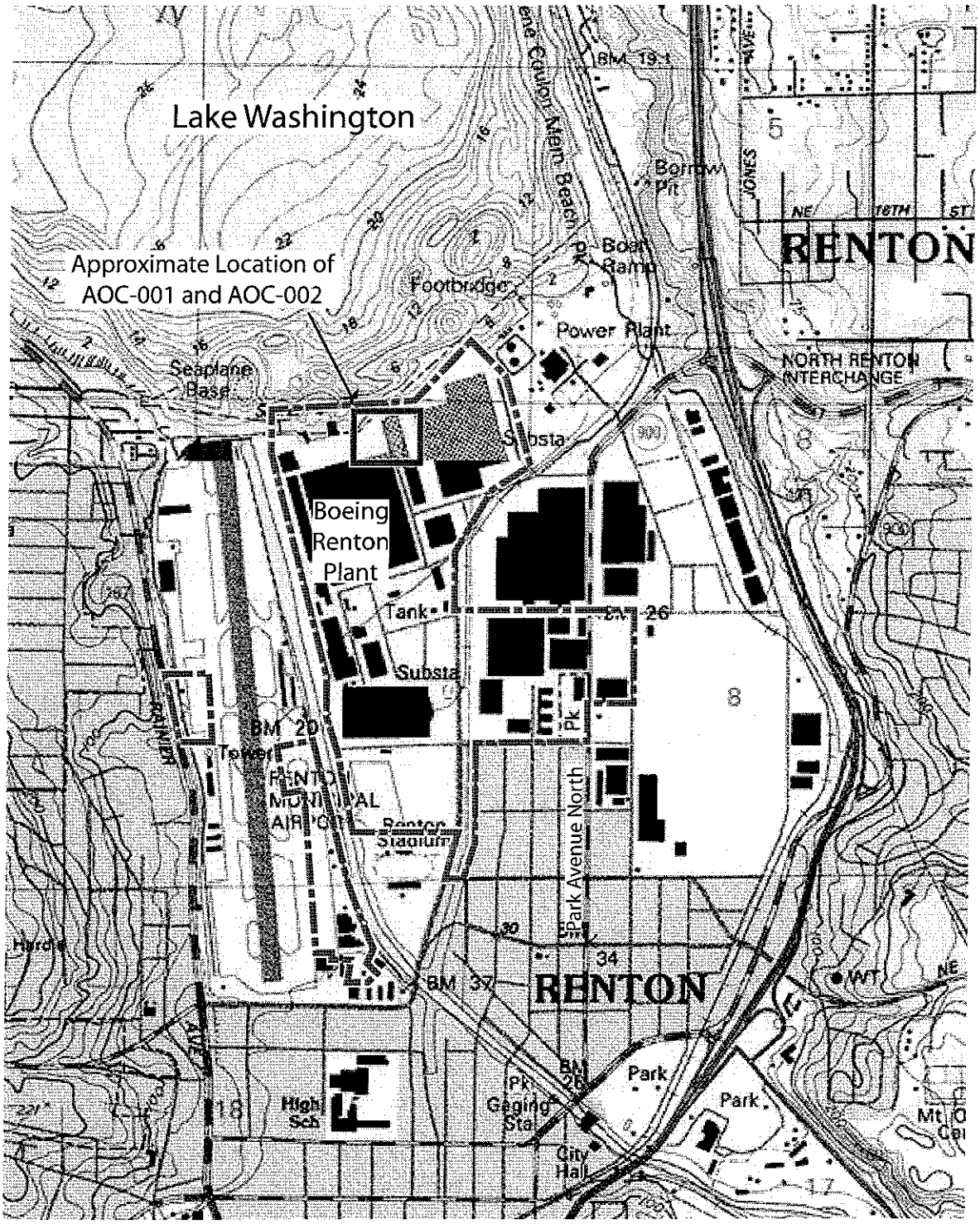

Figure modified from Figure 1-1 of the final *Remedial Investigation Report Boeing Renton Plant, Renton Washington* (Weston, August 10, 2001)

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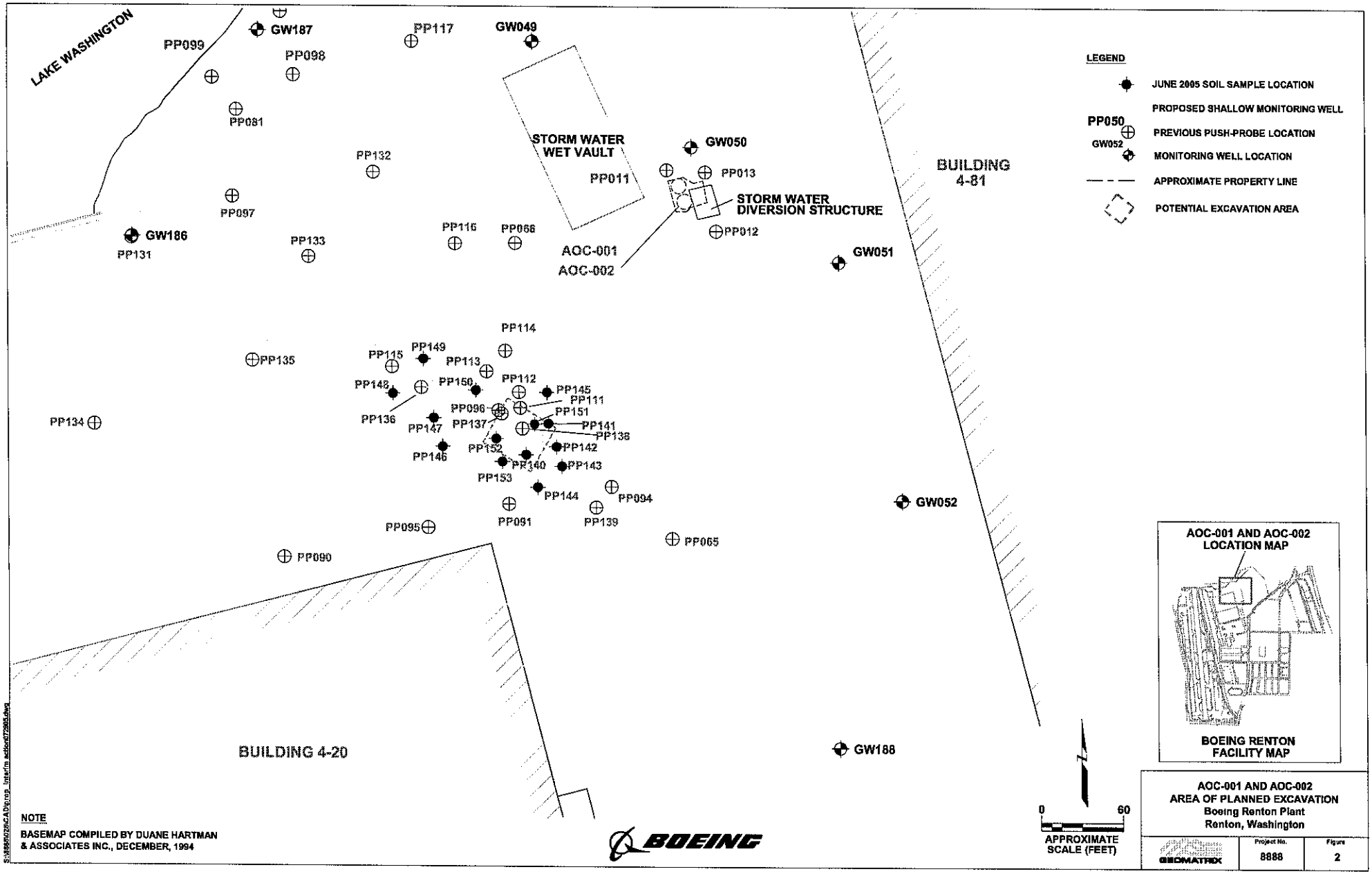
GEOMATRIX

APPROXIMATE LOCATION OF AOC-001 AND AOC-002
Boeing Renton Facility
Renton, Washington

Project No.
8888

Figure
1



NOTE

BASEMAP COMPILED BY DUANE HARTMAN & ASSOCIATES INC., DECEMBER, 1994

BOEING

AOC-001 AND AOC-002
AREA OF PLANNED EXCAVATION
Boeing Renton Plant
Renton, Washington

GEOMATRIX	Project No. 8888	Figure 2